

Abstract.

The present invention relates to a method for the production of DNA, in which 5-methylcytosine is not present. Such non-methylated DNA is in particular required as a verification for a reliable and sensitive analysis of cytosine methylations. The non-methylated DNA is synthesized by genome-wide amplification methods, in particular by a multiple displacement amplification (MDA). The non-methylated DNA can be used as a standard in a multitude of methods for the methylation analysis and in particular permits access to absolute values from methylation-specific hybridization microarray experiments.